

CLAIMS

1. A fibre having a maximum use temperature of 1200°C or more which comprises:-

$\text{SiO}_2 > 64.25 \text{ wt}\%$

$\text{CaO} > 18 \text{ wt}\%$

$\text{MgO} < 17 \text{ wt}\%$

and in which the amount of MgO in mol% is greater than the amount of CaO in mol % and in which the SiO_2 excess as specified is no greater than 21.8mol%..

2. A fibre as claimed in claim 1 and comprising:-

$\text{CaO} < 21 \text{ wt}\%$.

3. A fibre as claimed in claim 2 and comprising:-

$\text{CaO} < 20.5 \text{ wt}\%$.

4. A fibre as claimed in any of claims 1 to 3 and comprising:-

$\text{CaO} > 19 \text{ wt}\%$.

5. A fibre as claimed in claim 4 and comprising:-

$\text{CaO} > 19.5 \text{ wt}\%$

6. A fibre as claimed in any of claims 1 to 4 and comprising:-

$\text{MgO} > 14.25 \text{ wt}\%$.

7. A fibre as claimed in claim 6 and comprising:-

$\text{MgO} > 14.75 \text{ wt}\%$.

8. A fibre as claimed in claim 7 and comprising:-
MgO > 15.25 wt %.
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9. A fibre as claimed in any preceding claim and comprising:-
MgO < 16 wt %.
10. A fibre as claimed in any preceding claim and comprising:-
SiO₂ 65 ± 0.5 wt%
CaO 20 ± 0.5 wt%
MgO 15 ± 0.5 wt%.
11. A fibre as claimed in any of claims 1 to 9 and comprising:-
SiO₂ 64.5 - 64.7 wt%
CaO 19.5 - 20.2 wt%
MgO 15.5 - 15.6 wt%.
12. A fibre as claimed in any preceding claim and comprising:-
SiO₂ about 65 wt%
CaO about 19.5 wt%
MgO about 15.5 wt%.
13. A fibre as claimed in any preceding claim and consisting essentially of:-
CaO 18.7 to 20.2wt%
MgO 14.47 to 15.9wt%
SiO₂ 64.5 to 65.1wt%
Al₂O₃ 0 to 0.56wt%